

## UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army									
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE			PROJECT	
2040: Research, Development, Test & Evaluation, Army BA 2: Applied Research					PE 0602712A: Countermine Systems			HB2: COUNTERMINE COMPONENT TECHNOLOGY (CA)	
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016
HB2: COUNTERMINE COMPONENT TECHNOLOGY (CA)	9.550	-	-	-	-	-	-	-	-
<b>A. Mission Description and Budget Item Justification</b>									
Congressional Interest Item funding for Countermine Systems applied research.									
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>									
<b>Title:</b> Spectroscopic Materials Identification Center	1.592	-	-	-	-	-	-	-	-
<b>Description:</b> This is a Congressional Interest Item.									
<b>FY 2010 Accomplishments:</b>									
This Congressional Interest Item developed spectroscopic signatures libraries for the identification of explosives and explosive-related compounds (ERCs)									
<b>Title:</b> Standoff Detection of Explosives and Explosive Devices	3.183	-	-	-	-	-	-	-	-
<b>Description:</b> This is a Congressional Interest Item.									
<b>FY 2010 Accomplishments:</b>									
This Congressional Interest Item researched the detection of explosive residues for force protection and route clearance missions and the detection of explosives-related cues indicative of homemade explosive weaponization.									
<b>Title:</b> Standoff Improvised Explosive Device Detection Program	4.775	-	-	-	-	-	-	-	-
<b>Description:</b> This is a Congressional Interest Item.									
<b>FY 2010 Accomplishments:</b>									
This Congressional Interest Item, investigated standoff explosives-based detection technology optical signatures (laser induced breakdown spectroscopy (LIBS) and photo-dissociation laser induced fluorescence (PD-LIF)); long wave-hyperspectral imaging (LW-HSI); Raman; and point vapor detection techniques).									
<b>Accomplishments/Planned Programs Subtotals</b>	9.550	-	-	-	-	-	-	-	-

DATE: February 2011